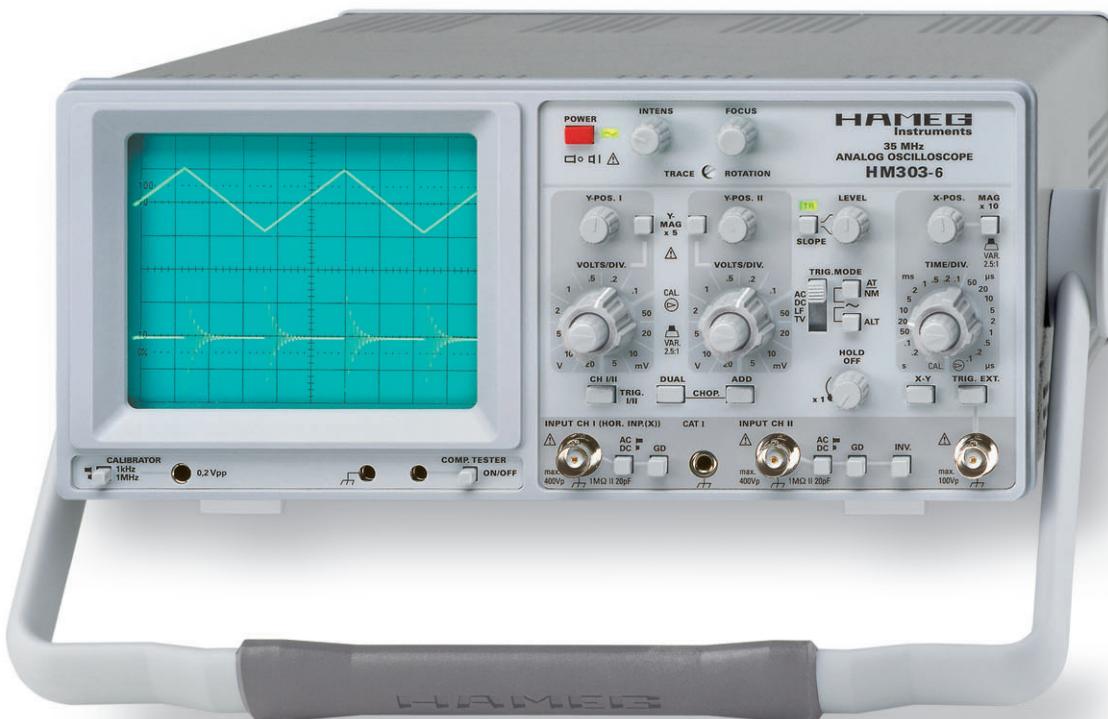
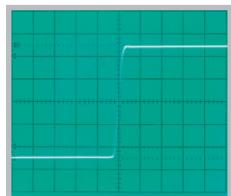


## 35 MHz Analog Oscilloscope HM303-6

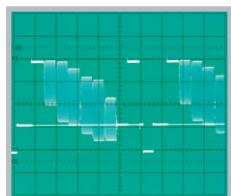
HM303-6



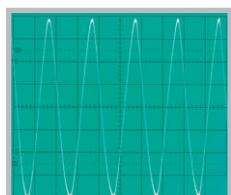
No signal distortion  
resulting from overshoot



Line triggered composite  
video signal



Full screen display of  
35 MHz sine wave signal



2 Channels with deflection coefficients of 1 mV/cm – 20 V/cm

Time Base: 0.2 s/cm – 100 ns/cm,  
with X Magnification to 10 ns/cm

Low Noise Measuring Amplifiers with high pulse fidelity  
and minimum overshoot

Triggering from 0 to 50 MHz from 5 mm signal level  
(up to 100 MHz from 8 mm)

Up to 500,000 signal displays per second  
in optimum analog quality

Yt, XY and component-test modes

## 35 MHz Analog Oscilloscope HM303-6

Valid at 23 °C after a 30 minute warm-up period

### Vertical Deflection

Operating Modes:	Channel I or II only Channels I and II (alternate or chopped) Sum or Difference of CH I and CH II
Invert:	CH II
XY Mode:	via CH I (X) and CH II (Y)
Bandwidth:	2 x 0 to 35 MHz (-3 dB)
Rise Time:	<10ns
Deflection Coefficients:	1-2-5 Sequence 1 mV/div. – 2 mV/div.: ± 5% (Bandwidth 0 – 10 MHz (-3 dB)) 5 mV/div. – 20 V/div.: ± 3% (Bandwidth 0 – 35 MHz (-3 dB)) Variable (uncalibrated): > 2.5 : 1 to > 50 V/div.
Input Impedance:	1 MΩ II 20 pF
Input Coupling:	DC, AC, GND (ground)
Max. Input Voltage:	400V (DC + peak AC)

### Triggering

Automatic (Peak to Peak):	20 Hz – 50 MHz (≥ 5 mm) 50 MHz – 100 MHz (≥ 8 mm)
Normal with Level Control:	0 – 50 MHz (≥ 5 mm) 50 MHz – 100 MHz (≥ 8 mm)
Trigger Indicator:	LED
Slope:	positive or negative
Sources:	Channel I or II, CH I / CH II alternate (≥ 8 mm), Line and External
Coupling:	AC: 10 Hz – 100 MHz DC: 0 – 100 MHz LF: 0 – 1.5 kHz
Trigger Indicator:	LED
External Trigger Signal:	≥ 0.3 V <sub>pp</sub> (30 Hz – 50 MHz)
Active TV sync. separator:	pos. and neg.

### Horizontal Deflection

Time Base:	0.2 s/div. – 0.1 µs/div. (1-2-5 Sequence)
Accuracy:	± 3%
Variabel (uncalibrated):	> 2.5:1 to > 0.5 s/div.
X Magnification x 10:	up to 10 ns/div.
Accuracy:	± 5%
Hold-Off Time:	variable to approx. 10 : 1
XY	
Bandwidth X Amplifier:	0 – 2.5 MHz (-3 dB)
XY Phase shift < 3°:	< 120 kHz

### Component Tester

Test Voltage:	approx. 7 V <sub>rms</sub> (open circuit)
Test Current:	max. 7 mA <sub>rms</sub> (short-circuit)
Test Frequency:	approx. 50 Hz
Test Connection:	2 banana jacks 4 mm Ø

One test circuit lead is grounded via protective earth (PE)

### Miscellaneous

CRT:	D14-363GY, 8 x 10 cm with internal graticule
Acceleration Voltage:	approx. 2 kV
Trace Rotation:	adjustable on front panel
Calibrator Signal (Square Wave):	0.2 V ± 1%, ≈ 1 kHz/1 MHz [tr < 4 ns]
Power Supply (Mains):	105 – 253 V, 50/60 Hz ± 10%, CAT II
Power Consumption:	approx. 36 Watt at 230V/50Hz
Ambient temperature:	0 °C...+ 40 °C
Safety class:	Safety class I (EN61010-1)
Weight:	approx. 5.4 kg
Dimensions (W x H x D):	285 x 125 x 380 mm

**Accessories supplied:** Line Cord, operator's manual, 2 Probes 1:1 / 10:1 (HZ154)

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